

What is claimed is:

1. A planographic printing plate, comprising in the following order on a supporting body:

a first layer containing a polymer which is insoluble in water and soluble in an alkaline aqueous solution; and

a second layer containing a cross-linking or polymeric compound, which is caused to form a covalent bond by action of one of light and heat, and thereby lowers solubility of said second layer in an alkaline developing liquid.

19 2. A planographic printing plate, comprising in the following order on a supporting body:

a first layer containing a polymer which is insoluble in water and soluble in an alkaline aqueous solution and which has a phenol group; and

a second layer containing a cross-linking or polymeric compound, which is caused to form a covalent bond by action of one of light and heat, and thereby lowers solubility of said second layer in an alkaline developing liquid.

25 3. A planographic printing plate, comprising in the following order on a supporting body:

a first layer containing a polymer which is insoluble in water and soluble in an alkaline aqueous solution and which has a sulfonamide group; and

a second layer containing a cross-linking or polymeric compound, which caused to form a covalent bond by action of one of light and heat, and therby lowers solubility of said secound layer in an alkaline developing liquid.

19 2. A planographic printing plate, comprising in the following order on a supporting body:

a first layer containing a polymer which is insoluble in water and soluble in an alkaline aqueous solution and which has a phenol group; and

a second layer containing a cross-linking or polymeric compound, which is caused to form a covalent bond by action of one of light and heat, and thereby lowers solubility of said second layer in an alkaline developing liquid.

25 3. A planographic printing plate, comprising in the following order on a supporting body:

a first layer containing a polymer which is insoluble in water and soluble in an alkaline aqueous solution and which has a sulfonamide group; and

a second layer containing a cross-linking or polymeric compound, which caused to form a covalent bond by action of one of light and heat, and therby lowers solubility of said secound layer in an alkaline developing liquid.

2. A planographic printing plate according to claim 1, wherein said polymer soluble in an alkaline aqueous solution is a polymer soluble in an alkaline aqueous solution which polymer has an active imide group.

5. A planographic printing plate according to claim 1, wherein said polymer soluble in an alkaline aqueous solution is a polymer soluble in an alkaline aqueous solution which polymer has a carboxylic acid group.

8. A planographic printing plate according to claim 1, wherein said polymer soluble in an alkaline aqueous solution is a polymer soluble in an alkaline aqueous solution which polymer has a sulfonic acid group.

10. A planographic printing plate according to claim 1, wherein said polymer soluble in an alkaline aqueous solution is a polymer soluble in an alkaline aqueous solution which polymer has a hydroxyaryl group.

12. A planographic printing plate according to claim 1, wherein said polymer soluble in an alkaline aqueous solution is a novolak resin.

9. A planographic printing plate according to claim 1, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

10. A planographic printing plate according to claim 2, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

11. A planographic printing plate according to claim 3, wherein said second layer contains an infrared absorbing agent,

and a content amount thereof is limited for preventing ablation.

12. A planographic printing plate according to claim 4, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

13. A planographic printing plate according to claim 5, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

14. A planographic printing plate according to claim 6, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

15. A planographic printing plate according to claim 7, wherein said second layer contains an infrared absorbing agent, and a content amount thereof is limited for preventing ablation.

16. A planographic printing plate according to claim 1, wherein formation of said covalent bond due to said action of one of light and heat is performed by a cross-linking reaction.

17. A planographic printing plate according to claim 2, wherein formation of said covalent bond due to said action of one of light and heat is performed by a cross-linking reaction.

18. A planographic printing plate according to claim 3, wherein formation of said covalent bond due to said action of one of light and heat is performed by a cross-linking reaction.

19. A planographic printing plate according to claim 4, wherein formation of said covalent bond due to said action of one of light and heat is performed by a cross-linking reaction.

20. A planographic printing plate according to claim 5, wherein formation of said covalent bond due to said action of

one of light and heat is performed by a cross-linking reaction.

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